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## EXAMINER 'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or
additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR
 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the
payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Jason Rhodes on 04-22-2010.

The application has been amended as follows:

In the claims:

Claim 32 is canceled.

Claim 22, line 11, after "MAC frame", insert ---,

the edge switch snoops a neighbor solicitation IP packet, and replaces the real MAC address of the source set in the MAC frame including the neighbor solicitation IP packet and the real MAC address of the source set in the neighbor solicitation IP packet with corresponding temporary MAC addresses, respectively, when the terminal transmits the neighbor solicitation IP packet, and

the edge switch snoops a neighbor advertisement IP packet, and replaces the real MAC address of the source set in the MAC frame including the neighbor advertisement IP packet and a target real MAC address set in the neighbor advertisement IP packet with corresponding temporary MAC addresses, respectively, when receiving the neighbor advertisement IP packet from the terminal ---.

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Claim 37, line 10, after "MAC address", insert ---, wherein

the edge switch snoops a neighbor solicitation IP packet, and replaces the real MAC address of the source set in the MAC frame including the neighbor solicitation IP packet and the real MAC address of the source set in the neighbor solicitation IP packet with corresponding temporary MAC addresses, respectively, when the terminal transmits the neighbor solicitation IP packet, and

the edge switch snoops a neighbor advertisement IP packet, and replaces the real MAC address of the source set in the MAC frame including the neighbor advertisement IP packet and a target real MAC address set in the neighbor advertisement IP packet with corresponding temporary MAC addresses, respectively, when receiving the neighbor advertisement IP packet from the terminal ---.

## Reason for Allowance

The following is a statement of reasons for the indication of allowable subject matter:

Regarding claims 22-31, and 33-42, the prior art fails to teach or suggest a layer 2 switch network system that includes a terminal, comprising a plurality of layer 2 switches including an edge switch, wherein the edge switch snoops a neighbor solicitation IP packet, and replaces the real MAC address of the source set in the MAC frame including the neighbor solicitation IP packet and the real MAC address of the source set in the neighbor solicitation IP packet with corresponding temporary MAC addresses, respectively, when the terminal transmits the neighbor solicitation IP packet, and the edge switch snoops a neighbor advertisement IP packet, and replaces the real MAC address of the source set in the MAC frame including the neighbor

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advertisement IP packet and a target real MAC address set in the neighbor advertisement IP packet with corresponding temporary MAC addresses, respectively, when receiving the neighbor advertisement IP packet from the terminal, in combination with other limitations, as specified in the independent claims 22 and 37.

- 3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- 4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Duc Ho whose telephone number is (571) 272-3147. The examiner can normally be reached on Monday through Thursday from 7:30 am to 6:00 pm.

If attempt to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel, can be reached on (571) 272-2988.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571) 272-2600.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

5. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Patent Examiner

/DUC C HO/

Primary Examiner, Art Unit 2465

04-22-2010